



**AYD GRUP**  
FLOAT GLASS INDUSTRY CO.



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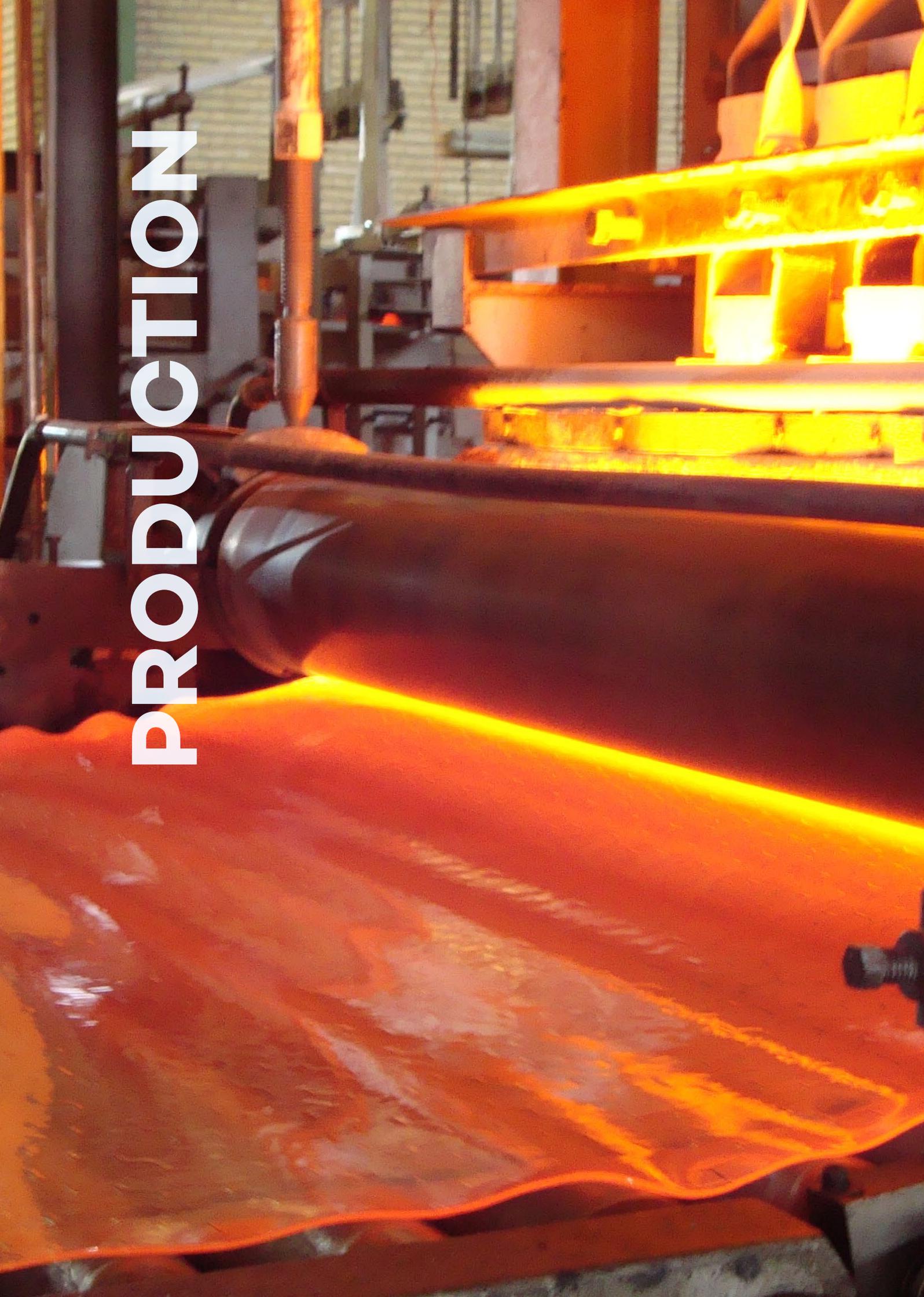
FLOAT GLASS INDUSTRY CO.

AYD Glass produces clear float glass, tinted float glass, reflective glass, laminated glass, pattern glass, solar glass, sun collector glass and horticultural glass in Turkey. AYD Glass meets the customers' demands by the most qualified goods at most competitive price level. To serve the best, AYD always works with qualified colleagues.

AYD Glass has been becoming a well known brand in world glass sector day by day due to its people-oriented and environment-friendly projects. Our main company principles are understanding customers' needs well and meeting these demands with the most suitable solution just in time.

While doing this, attaining the same quality at every level is our main purpose. The key words of our working philosophy are customer, quality, trust, sustainability, positive competition and environment. At all levels of supplying, our team mates make high effort to meet these words.

# PRODUCTION





### **Examination of Raw Materials**

- Evaluation of alternative raw materials for both the new furnace investments and the current furnaces
- Determination of raw material specifications

### **Design of New Glass Compositions**

- Design of glass compositions in order to obtain target physical properties
- Preparation of transition program for composition change and its application to the furnace on request

### **Color and Optical Properties**

Depending on the market demands, new glass compositions having target optical and color properties are designed by experimental and instrumental methods. Besides projects on developing new products, studies on problem solving related with color and optical properties are also carried out.

### **Coloring/Decolorizing**

- New color design (coloring from batch and forehearth)
- Decolorisation studies for flint glass productions
- Solving color problems of production

### **Color Change Works**

- Preparation of workflow plan for color change operations with the use of in-house color model
- Assisting the site operations starting from color change period to the target color



## Physical and Mechanical Properties

The studies on the measurement and optimization of physical and mechanical properties of glasses in order to obtain continuous high quality in the product and high productivity in the manufacturing process, are carried out. Besides, the parameters of conditioning in the forehearth, forming and annealing, tempering and decorating processes are measured and developed as well.

- Physical property measurements
- Mechanical property measurements impact resistance
- Stress analysis
- Fracture analysis
- Micro homogeneity measurements
- Measuring and adjusting the suitable temperature profiles of annealing, tempering and decoration processes

Studies on bubble defect (gaseous inclusions) are carried out in order to remove the defect completely or reduce to an acceptable level, as soon as possible, for minimizing the production loss.

## Examination of Bubble Defect

- Preliminary microscopic examination on product (bubble count, size, deposits, etc.)
- Identification of bubble source based on bubble gas composition and total internal pressure (by Mass Spectrometer)
- Data processing for furnace operation parameters

## Experimental and Numerical Simulations

- Experimental investigations of possible bubble sources by laboratory simulations
- Numerical studies on bubble dynamics (buoyancy velocity, bubble growth/shrinkage rate, etc)

**PRODUCTS**





## Clear Float Glass

It has the best quality because of the production technology. Clear Float Glass is the main product for whole glass application. Because of the transparency, it has high light transmittance. There is continuous production with different thickness and size for clear float glass.

### SIZE

2440 x 1220 mm
2440 x 1830 mm
3210 x 2140 mm
3210 x 2250 mm
3210 x 2440 mm
3210 x 2550 mm
3660 x 2140 mm
3660 x 2250 mm
3660 x 2440 mm
3660 x 2550 mm
6000 x 3210 mm



### THICKNESS

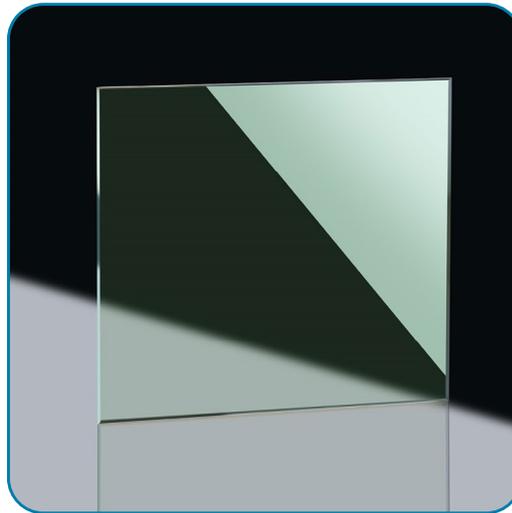
2 mm	3 mm	4 mm	5 mm	5,5 mm	6 mm	8 mm	10 mm	12 mm
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# Tinted Float Glass

It offers many options with its different colors to designers. When it is used as external wall, it isolates heat and shiny light and provides comfortable working and living areas. It helps to reduce the expense of air-conditioning.

SIZE
2440 x 1220 mm
2440 x 1830 mm
3210 x 2140 mm
3210 x 2250 mm
3210 x 2440 mm
3210 x 2550 mm
3660 x 2140 mm
3660 x 2250 mm
3660 x 2440 mm
3660 x 2550 mm
6000 x 3210 mm



THICKNESS								
2 mm	3 mm	4 mm	5 mm	5,5 mm	6 mm	8 mm	10 mm	12 mm



## Extra/Ultra Clear Float Glass

Ultra clear float glass has a high transmittance of light and transparency. It provides a brighter view so everything appears in its real color and brightness. It is the best choice for showrooms, museum, atriums, separators, glass doors, furniture, glass elevators, shower cabins because of its higher light transmission and clarity. You can see how it is clear when you look from the edge. It has no green color as usual clear float glass.





## Reflective Glass

Reflective glass limits solar heat transmission and high sun shining into buildings. It keeps inside cooler and provides energy saving. It offers a visual harmony by its high reflectance. It provides one way view from inside to outside during day hours and from outside to inside during night. Lamination, enameling, tempering, bending is possible.





## Mirror

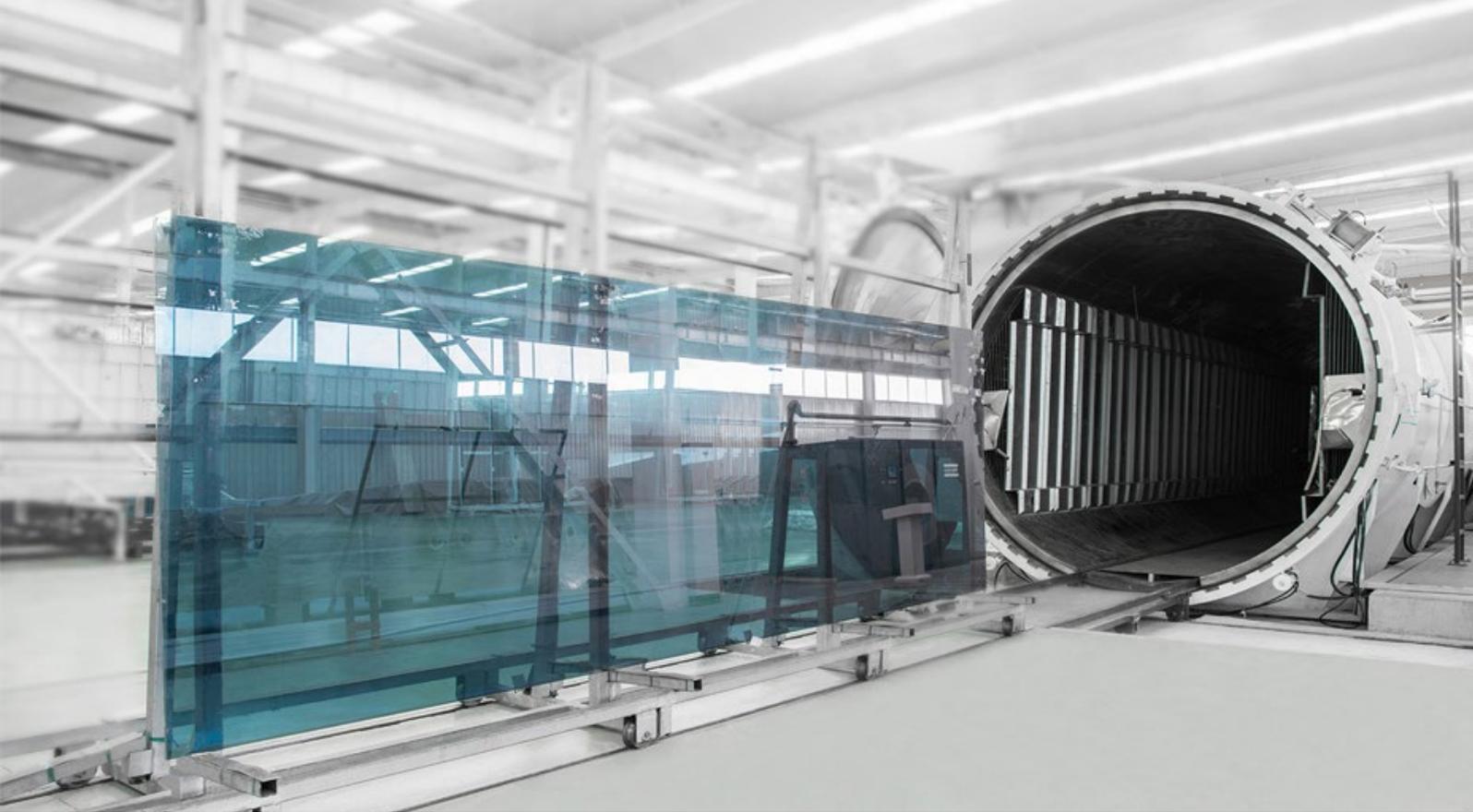
Mirror is form of a glass after plating a surface of the float glass with reflective silver coating and plating the silver coating with copper and protective paints with the aim of protecting this silver coating against corrosion. The silver coated mirrors are most popular type because of their high reflectivity. In addition, it is highly resistant to corrosion as it is produced through the sensitive production processes and thanks to the special chemicals used. Silver coated mirrors can be in different colors like bronze, smoky and etc.

**Color Option:** Bronze, Silver and Smoky.

SIZE
2250 x 1605 mm
2440 x 1830 mm
2500 x 1605 mm
3210 x 2250 mm

THICKNESS			
3 mm	4 mm	5 mm	6 mm

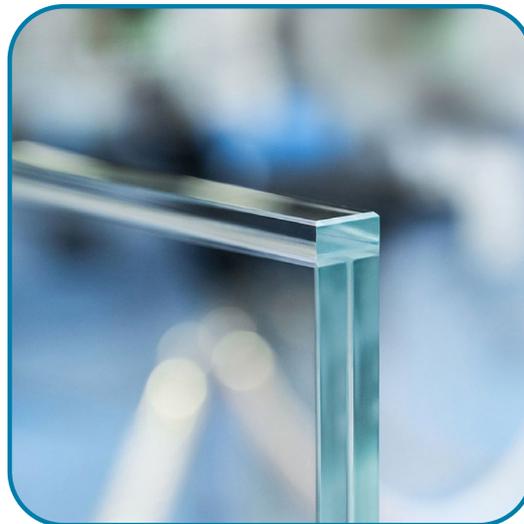




# Clear Laminated Glass

The main purpose of using laminated glass is security. It is impact-resistant so it safes your living areas and working areas from attacks by hard objects. Also it minimizes the risk of injury due to glass broken. Also it provides comfortable areas by barriering the noise and protection against UV radiation.

**Color Option:** Bronze, Gray and Transparent



## SIZE

3210 x 2250 mm

3210 x 2500 mm

## THICKNESS

4+4.1 mm

4+4.2 mm

5+5.1 mm

5+5.2 mm

6+6.1 mm

6+6.2 mm

8+8.1 mm

8+8.2 mm

10+10.1 mm

10+10.2 mm



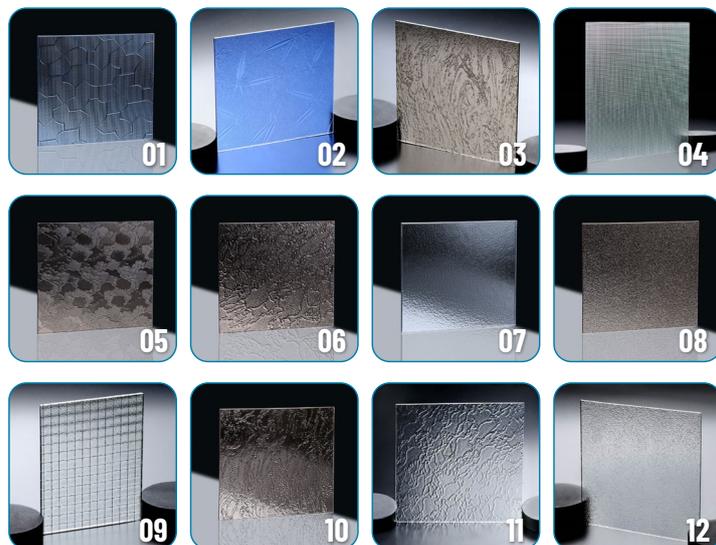
## Pattern Glass

Glass brings naturalness to our living areas by transmitting the sun shine to indoor areas. But be in sight is not desirable at every time. The pattern glass is the best solution when the situation is like this. It provides this by esthetics. So it is popular between interior designers for small areas which needs extra light. It has many patterns and every patterns has different transparency so it presents many application choices for designers. Laminating, tempering, reflective silver coating can be done for different purposes like safety,esthetics and etc.

**Renkler:** White, Bronze and Blue

SIZE
2000 x 1200 mm
2000 x 1300 mm
2000 x 1400 mm
2000 x 1500 mm
2000 x 1600 mm

THICKNESS				
4 mm	5 mm	5,5 mm	6 mm	8 mm





## Sun Collector Glass

Sun collector glass is the glass for the solar system working with heating water. Glass is the one of main component of sun collector system that effects the performance directly and safes the system from external factors. This kind of glass has less iron then usual clear float glass and it increase the thermal transmittance. There are two patterns; sandy and mat. Also these patterns reduce the reflection and provide higher performance then usual float glass. Ayd Glass produces sun collector glass with size 1900x900mm.





# AUTOMOTIVE



Our green glass' ideal colour and the lack of defects such as distorting waves or thickness variability make it suitable for automotive glass production in thicknesses 2.2, 3.5 mm, etc. Because of its specific-formula, green glass is appropriate for the automotive glass industry.

We are honoured to offer a product which meets the high quality requirements of all automotive glass end users.

## French Green/Float Glass

THICKNESS					
2.2 mm	3.3 mm	3.5 mm	4 mm	5 mm	6 mm

# LOGISTIC



# Vessel / 1000 and 10000 Tones

## Sizes

- 2440 x 1220 mm
- 2440 x 1830 mm
- 3210 x 2140 mm
- 3210 x 2250 mm
- 3210 x 2440 mm
- 3210 x 2550 mm
- 3660 x 2140 mm
- 3660 x 2250 mm
- 3660 x 2440 mm
- 3660 x 2550 mm



# Container

## OTC (Open Top Container)

Max 26 TONES (26.000 kgs)

### Sizes

- 3210 x 2250 mm
- 3210 x 2440 mm
- 3210 x 2550 mm
- 3660 x 2250 mm
- 3660 x 2440 mm
- 3660 x 2550 mm

## GP'20 (General Purpose (Dry) Container)

Max 25 Tones (25.000 kgs)

### Sizes

- 2440 x 1220 mm
- 2440 x 1830 mm
- 3210 x 2140 mm
- 3660 x 2140 mm



# Train / 50 and 55 Tones

## Sizes

- 2440 x 1220 mm
- 2440 x 1830 mm
- 3210 x 2140 mm
- 3210 x 2250 mm
- 3210 x 2440 mm
- 3210 x 2550 mm
- 3660 x 2140 mm
- 3660 x 2250 mm
- 3660 x 2440 mm
- 3660 x 2550 mm



# Truck

## Standard Truck

Max 24 TONES (24.000 kgs)

### Sizes

- 3210 x 2250 mm
- 3210 x 2440 mm
- 3210 x 2550 mm
- 3660 x 2250 mm
- 3660 x 2440 mm
- 3660 x 2550 mm

## Jumbo Trucks

Max 25 Tones (25.000 kgs)

### Sizes

- 6000 x 3210 mm





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